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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,475	05/20/2008	Cheong Weon Cho	HANOL-10758	9372
72960 7590 01/26/2010 Casimir Jones, S.C.			EXAMINER	
2275 DEMINO	3 WAY, SUITE 310		ALLEN, MARIANNE P	
MIDDLETON	I, WI 53562		ART UNIT	PAPER NUMBER
			1647	
			MAIL DATE	DELIVERY MODE
			01/26/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)		
10/567,475	CHO ET AL.		
Examiner	Art Unit		
Marianne P. Allen	1647		

Manamer 1.7 den
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provision of 37 CFR 1-136(a). In no event, however, may a reply be timely filled after SIX (6) MORTHS from the making date of this communication. Failure for provision of time the state of the communication. Failure for provision by within the set or extended périod for reply with by state of cause the application to become ABANDONED (38 U.S.C.§ 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any examed plant to true adjustment. See 37 CFR 1-1706 in the second provision of the second provisio
Status
Responsive to communication(s) filed on This action is FINAL. 2b)⊠ This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.
Disposition of Claims
4) ⊠ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement.
Application Papers
9) The specification is objected to by the Examiner. 10) The drawling(s) filed onis/are: a)accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawling(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawling sheet(s) including the correction is required if the drawling(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.
Priority under 35 U.S.C. § 119
12) ⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) ☒ None of: 1. ☒ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.
Attachment(s) 1) Notice of Petersness Cited (PTO 992) 4) Intenious Summers (PTO 412)

2) Notice of references of Patent Drawing Review (PTO-948)
3) X Information Disclosure Statement(s) (PTO/SB/05)

Paper No(s)/Mail Date 7/23/09, 1/5/10.

| Interview Summary (PTO-413)
| Paper No(s)/Mail Date.
| Notice of Informal Patent Application
| Other: ______.

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DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in the Republic of Korea on 06 August 2003. It is noted, however, that applicant has not filed a certified copy of the 10-2003-0054260 application as required by 35 U.S.C. 119(b).

Specification

The abstract of the disclosure does not commence on a separate sheet in accordance with 37 CFR 1.52(b)(4). A new abstract of the disclosure is required and must be presented on a separate sheet, apart from any other text.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites "therapeutically effective amount" but does not recite what therapeutic effect must be achieved. It cannot be determined what amounts of EPO must be present in the preparation to meet the limitations of the claims.

The preamble of claim 1 is directed to a solution preparation. However, the body of the claim does not recite any limitations concerning the solvent and/or that the EPO and albuminfree stabilizing agent are in solution. Clarification is requested. Art Unit: 1647

Claim 4 recites a tonicity agent. The specification does not provide a limiting definition of what this term encompasses. Page 9 indicates that a tonicity agent may be sodium chloride, mannitol, or sorbitol. However, the claims are not limited to these agents and it cannot be determined what other agents would meet the limitations of the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Brines et al. (U.S. Patent No. 6,531,121).

Brines et al. discloses a solution of crythropoietin (EPO) comprising EPO and 5% hydroxyethyl starch. See at least column 16, lines 48-60.

Claims 1 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Takayama et al. (U.S. Patent No. 5,910,303).

Takayama et al. discloses a solution that comprises erythropocitin (EPO), hydroxyethyl starch (HES), a saccharide such as mannitol or sorbitol (i.e. a tonicity agent, see page 9 of the Application/Control Number: 10/567,475

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instant specification), and a non-ionic surfactant. See at least column 5, lines 8-27, and claims 4 and 6-8.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yamazaki et al. (U.S. Patent No. 7,011,825) in view of Takayama et al.

Yamazaki et al. discloses a solution of EPO comprising EPO, amino acids such as glutamic acid, a tonicity agent such as sodium chloride, and a non-ionic surfactant such as polyoxyethylene sorbitan alkyl esters (e.g. polysorbate 20 or polysorbate 80) where proteins such as human serum albumin are not present as stabilizing agents. See at least claims and columns 1-2. The reference does not disclose including hydroxyethyl starch (HES).

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Takayama et al. is applied as above and discloses that HES is a stabilizer for proteins such as EPO when they are in solution. The concentration of the stabilizers can be in the amount of 0.1-50 w/w %. See at least claims and column 5, lines 5-30.

It would have been obvious to use HES in the EPO solution of Yamazaki et al. as

Takayama et al. makes clear that multiple stabilizers can be used with EPO including HES. One
would have been motivated to do so to produce a stable solution of EPO.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marianne P. Allen whose telephone number is (571)272-0712. The examiner can normally be reached on Monday-Friday, 5:30 am - 2:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Nickol can be reached on 571-272-0835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Marianne P. Allen/ Primary Examiner, Art Unit 1647

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